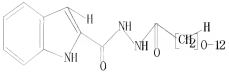
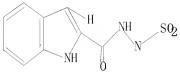
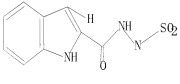
```
=> d his

     (FILE 'HOME' ENTERED AT 14:59:21 ON 15 APR 2009)

     FILE 'REGISTRY' ENTERED AT 14:59:31 ON 15 APR 2009
L1                STRUCTURE UPLOADED
L2                STRUCTURE UPLOADED
L3              3 S L2
L4             42 S L2 FULL

=> d l1
L1 HAS NO ANSWERS
L1                STR
```



```
Structure attributes must be viewed using STN Express query preparation.

=> d l2
L2 HAS NO ANSWERS
L2                STR
```

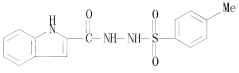


```
Structure attributes must be viewed using STN Express query preparation.

=> d que l4 stat
L2                STR
```



```
Structure attributes must be viewed using STN Express query preparation.
L4             42 SEA FILE=REGISTRY SSS FUL L2

100.0% PROCESSED     3660 ITERATIONS                          42 ANSWERS
SEARCH TIME: 00.00.01



=> s l4 and ed<3/8/2004
       63595193 ED<3/8/2004
                (ED<20040308)
L5             28 L4 AND ED<3/8/2004

=> d l-28 ide can
```

L5 ANSWER 1 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 500316-12-1 REGISTRY
ED Entered STN: 24 Mar 2003
CN 1H-Indole-2-carboxylic acid, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
OTHER NAMES:
CN NSC 106222
MF C16 H15 N3 03 S
SR Chemical Library
LC STN Files: CA, CAPLUS

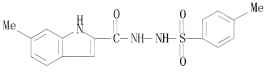


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

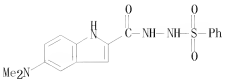
REFERENCE 1: 150:214208

L5 ANSWER 2 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 408528-23-4 REGISTRY
ED Entered STN: 29 Apr 2002
CN 1H-Indole-2-carboxylic acid, 6-methyl-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
MF C17 H17 N3 03 S
SR Reaction Database
LC STN Files: CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 3 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-88-9 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-(dimethylamino)-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C17 H18 N4 03 S
CI COM
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

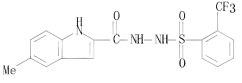


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 4 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-61-8 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-methyl-, 2-[[2-(trifluoromethyl)phenyl]sulfonyl]hydrazide (CA INDEX NAME)
MF C17 H14 F3 N3 03 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

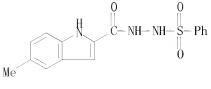


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 5 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-60-7 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-methyl-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C16 H15 N3 03 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

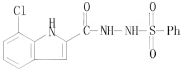


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 6 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-59-4 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 7-chloro-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C15 H12 Cl N3 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

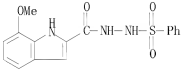


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 7 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-58-3 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 7-methoxy-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C16 H15 N3 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

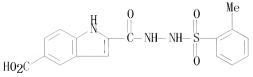


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 8 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-52-7 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(2-methylphenyl)sulfonyl]hydrazide] (CA INDEX NAME)
MF C17 H15 N3 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

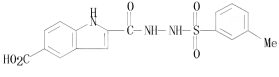


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 9 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-51-6 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-methylphenyl)sulfonyl]hydrazide] (CA INDEX NAME)
MF C17 H15 N3 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

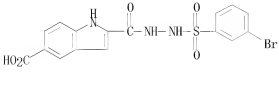


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 10 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-50-5 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-bromophenyl)sulfonyl]hydrazide] (CA INDEX NAME)
MF C16 H12 Br N3 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

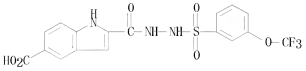


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 11 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-49-2 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[3-(trifluoromethoxy)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)
MF C17 H12 F3 N3 06 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

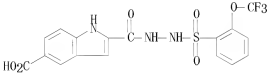


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 12 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-48-1 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[2-(trifluoromethoxy)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)
MF C17 H12 F3 N3 06 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

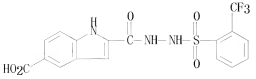


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 13 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-47-0 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[2-(trifluoromethyl)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)
MF C17 H12 F3 N3 05 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

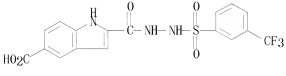


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 14 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-46-9 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[3-(trifluoromethyl)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)
MF C17 H12 F3 N3 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

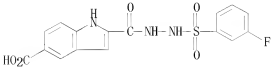


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 15 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-45-8 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-fluorophenyl)sulfonyl]hydrazide] (CA INDEX NAME)
MF C16 H12 F N3 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

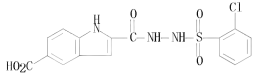


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 16 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-44-7 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(2-chlorophenyl)sulfonyl]hydrazide] (CA INDEX NAME)
MF C16 H12 Cl N3 05 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

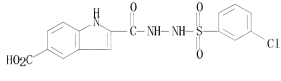


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 17 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-43-6 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-chlorophenyl)sulfonyl]hydrazide] (CA INDEX NAME)
MF C16 H12 Cl N3 05 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

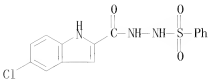


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 18 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-42-5 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C15 H12 Cl N3 03 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

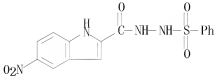


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 19 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-41-4 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-nitro-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C15 H12 N4 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

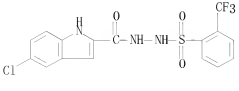


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 20 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-40-3 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[2-(trifluoromethyl)phenyl]sulfonyl]hydrazide (CA INDEX NAME)
MF C16 H11 Cl F3 N3 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

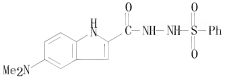


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 21 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-28-7 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-(dimethylamino)-, 2-(phenylsulfonyl)hydrazide, hydrochloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole-2-carboxylic acid, 5-(dimethylamino)-, 2-(phenylsulfonyl)hydrazide, monohydrochloride (9CI)
MF C17 H18 N4 O3 S . Cl H
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (406192-88-9)

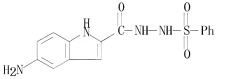


● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 22 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 406192-24-3 REGISTRY
ED Entered STN: 19 Apr 2002
CN 1H-Indole-2-carboxylic acid, 5-amino-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
MF C15 H14 N4 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



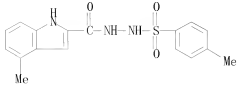
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279204

L5 ANSWER 23 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 58518-52-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 4-methyl-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
MF C17 H17 N3 O3 S

LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL
(*File contains numerically searchable property data)

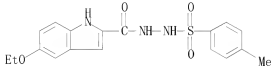


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 84:105389

L5 ANSWER 24 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 30464-80-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 5-ethoxy-,
2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydrazine, 1-[(5-ethoxyindol-2-yl)carbonyl]-2-(p-tolylsulfonyl)- (8CI)
MF C18 H19 N3 O4 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

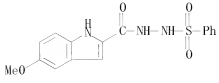


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:53406

L5 ANSWER 25 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 22930-51-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 5-methoxy-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydrazine, 1-[(5-methoxyindol-2-yl)carbonyl]-2-(phenylsulfonyl)- (8CI)
MF C16 H15 N3 O4 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

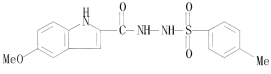
3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:460311

REFERENCE 2: 136:279204

REFERENCE 3: 71:12941

L5 ANSWER 26 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 22930-50-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 5-methoxy-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydrazine, 1-[(5-methoxyindol-2-yl)carbonyl]-2-(p-tolylsulfonyl)- (8CI)
MF C17 H17 N3 04 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



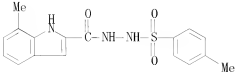
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:53406

REFERENCE 2: 71:12941

L5 ANSWER 27 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2898-94-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 7-methyl-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydrazine, 1-[(7-methylindol-2-yl)carbonyl]-2-(p-tolylsulfonyl)- (7CI, 8CI)
MF C17 H17 N3 03 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

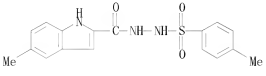


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 62:90729

L5 ANSWER 28 OF 28 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1463-63-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 5-methyl-,
2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydrazine, 1-[(5-methylindol-2-yl)carbonyl]-2-(p-tolylsulfonyl)- (7CI, 8CI)
MF C17 H17 N3 O3 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 62:90729

=> fil capl
FILE 'CAPLUS' ENTERED AT 15:01:51 ON 15 APR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

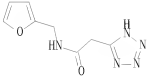
This file contains CAS Registry Numbers for easy and accurate substance identification.
'.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

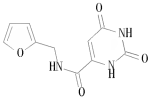
=> s l4

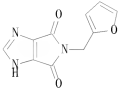
L6 9 L4

=> d 1-9 bib abs hitstr

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:560704 CAPLUS
DN 150:214208
TI Microwave assisted synthesis of indole and furan derivatives possessing good anti-inflammatory and analgesic activity
AU Sondhi, Sham M.; Jain, Shubhi; Rani, Reshma; Kumar, Ashok
CS Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, 247667, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2007), 46B(11), 1848-1854
CODEN: IJSBDB; ISSN: 0376-4699
PB National Institute of Science Communication and Information Resources
DT Journal
LA English
GI


I

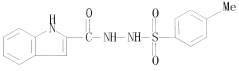

II


III

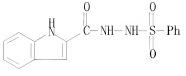
AB Indole-2-carboxylic acid on condensation with benzene sulfonyl hydrazide and p-toluene sulfonyl hydrazide gave the corresponding products. 1H-Tetrazole-5-acetic acid, hydantoin-5-acetic acid, orotic acid, 5-bromo nicotinic acid and indole 2-carboxylic acid have been condensed with furfuryl amine to give corresponding products, e.g., I and II, whereas condensation of succinic acid and adipic acid with furfuryl amine gave the corresponding compds. 3,5-Pyrazole dicarboxylic acid, 4,5-imidazole dicarboxylic acid and 3-carboxy-1,4-dimethyl pyrrole-2-acetic acid on condensation with furfuryl amine gave the corresponding compds., e.g., III. All the prepared compds. have been screened for their anti-inflammatory and analgesic activities. Compds. I and III exhibit good anti-inflammatory and I, II and III exhibited good analgesic activity.

IT 500316-12-1P 858213-13-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(microwave irradiation-assisted preparation, anti-inflammatory and analgesic activities of indole and furan derivs. bearing various heterocyclic substituents)

RN 500316-12-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)



RN 858213-13-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



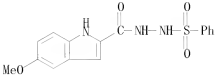
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:274280 CAPLUS
DN 144:460311
TI The design and synthesis of human branched-chain amino acid aminotransferase inhibitors for treatment of neurodegenerative diseases
AU Hu, Lain-Yen; Boxer, Peter A.; Kesten, Suzanne R.; Lei, Huangshu J.; Wustrow, David J.; Woreland, David W.; Zhang, Liming; Ahn, Kay; Ryder, Todd R.; Liu, Xiaohong; Rubin, John R.; Fahnoe, Kelly; Carroll, Richard T.; Dutta, Satavisha; Fahnoe, Douglass C.; Probert, Albert W.; Roof, Robin L.; Rafferty, Michael F.; Kostlan, Catherine R.; Scholten, Jeffrey D.; Hood, Molly; Ren, Xiao-Dan; Schielke, Gerald P.; Su, Ti-Zhi; Taylor, Charles P.; Mistry, Anil; McConnell, Patrick; Hasemann, Charles; Ohren, Jeffrey
CS Pfizer Global Research and Development, Ann Arbor, MI, USA
SO Bioorganic & Medicinal Chemistry Letters (2006), 16(9), 2337-2340
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 144:460311
GI

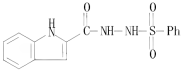
I

AB The inhibition of the cytosolic isoenzyme BCAT that is expressed specifically in neuronal tissue is likely to be useful for the treatment of neurodegenerative and other neurol. disorders where glutamatergic mechanisms are implicated. Compound I exhibited an IC50 of 0.8 μM in the hBCATc assays; it is an active and selective inhibitor. Inhibitor I also blocked calcium influx into neuronal cells following inhibition of glutamate uptake, and demonstrated neuroprotective efficacy in vivo. SAR, pharmacol., and the crystal structure of hBCATc with inhibitor I are

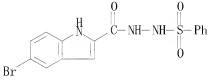
described.
IT 22930-51-4P 858213-13-5P 886062-20-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(design and synthesis of human branched-chain amino acid aminotransferase inhibitors for treatment of neurodegenerative diseases)
RN 22930-51-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



RN 858213-13-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



RN 886062-20-0 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-bromo-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1004705 CAPLUS
DN 143:306169
TI Indole-2-carboxylic acid hydrazides
IN Bradley, Stuart Edward; Jeevaratnam, Revathy Perpetua; Krulle, Thomas Martin; Procter, Martin James; Rowley, Robert John; Thomas, Gerard Hugh; Valdes, Ana
PA Prosidion Limited, UK
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005085194	A2	20050915	WO 2005-GB872	20050308
WO 2005085194	A3	20060105		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

EP 1768957 A2 20070404 EP 2005-717940 20050308
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA,
HR, LV, MK, YU

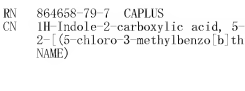
JP 2007527903 T 20071004 JP 2007-502386 20050308
US 20080188472 A1 20080807 US 2007-592011 20071022
PRAI US 2004-551255P P 20040308
WO 2005-GB872 W 20050308
OS CASREACT 143:306169; MARPAT 143:306169
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

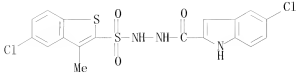
AB Compds. of formula I [wherein Y = -C(O)-, -S(O)2-, or -C(NH)-; Z = C1-4alkylene, O, -(CH2)m0-, -O(CH2)m, etc. (m = 1-4); R1, R2 = independently halogen, hydroxym cyano, etc.; R3 = C0-4alkyl, C1-4alkoxyC1-3alkyl-, hydroxyC1-4alkyl, etc.; R4 = H, -C0OC0-4alkyl, C1-4alkyl, etc.] or pharmaceutically acceptable salts thereof, were prepared as inhibitors of glycogen phosphorylase. Thus, a solution of 5-chloro-1H-indole-2-carboxylic acid hydrazide (II) in 1,4-dioxane was treated with phenylmethanesulfonyl chloride and DIPEA for 16H at room temperature to provide 5-chloro-1H-indole-2-carboxylic acid N'-(phenylmethanesulfonyl)hydrazide (III). Compds. of formula I are useful in the prophylactic or therapeutic treatment of diabetes, hyperglycemia, hypercholesterolemia, hyperinsulinemia, hyperlipidemia, hypertension, atherosclerosis or tissue ischemia, e.g. myocardial ischemia, or as cardioprotectants or inhibitors of abnormal cell growth.

IT 864658-78-6P 864658-79-7P 864658-80-0P
864658-81-1P 864658-82-2P 864658-83-3P
864658-84-4P 864658-85-5P 864658-86-6P
864658-87-7P 864658-88-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indole-2-carboxylic acid hydrazides as inhibitors of glycogen phosphorylase)

RN 864658-78-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[(phenylmethyl)sulfonyl]hydrazide (CA INDEX NAME)



RN 864658-79-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[(5-chloro-3-methylbenzo[b]thien-2-yl)sulfonyl]hydrazide (CA INDEX NAME)



RN 864658-80-0 CAPLUS
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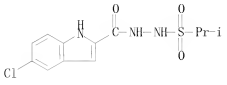
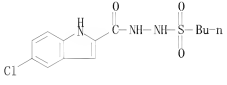
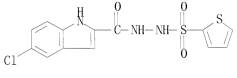


RN 864658-81-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(butylsulfonyl)hydrazide (CA INDEX NAME)



RN 864658-82-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(2-thienylsulfonyl)hydrazide (CA INDEX NAME)



RN 864658-83-3 CAPLUS
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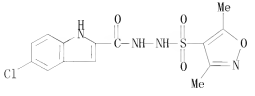

RN 864658-84-4 CAPLUS
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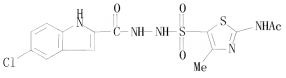
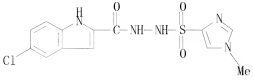
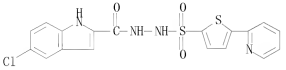


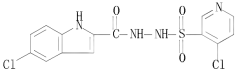
RN 864658-85-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[(1-methyl-1H-imidazol-4-yl)sulfonyl]hydrazide (CA INDEX NAME)



RN 864658-86-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[[5-(2-pyridinyl)-2-thienyl]sulfonyl]hydrazide (CA INDEX NAME)



RN 864658-87-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[(4-chloro-3-pyridinyl)sulfonyl]hydrazide (CA INDEX NAME)



RN 864658-88-8 CAPLUS
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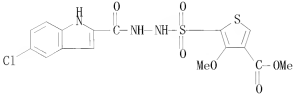


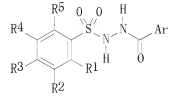
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2002:240749 CAPLUS

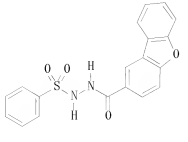
DN 136:279204
TI Preparation of heterocyclylcarbonyl derivatives of arylsulfonylhydrazides as branched chain amino acid-dependent aminotransferase inhibitors and their use in the treatment of neurodegenerative diseases
IN Bora, Keenan Martin; Hu, Lain-Yen; Kesten, Suzanne Ross; Lei, Huanyshu; Moreland, David Winslow; Rafferty, Michael Francis; Ryder, Todd Robert; Scholten, Jeffrey David; Wustrow, David Juergen
PA Warner-Lambert Company, USA
SO PCT Int. Appl., 183 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002024672	A2	20020328	WO 2001-US25892	20010817
	WO 2002024672	A3	20030306		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2416136	A1	20020328	CA 2001-2416136	20010817
	AU 2001085067	A	20020402	AU 2001-85067	20010817
	EP 1320523	A2	20030625	EP 2001-964182	20010817
	EP 1320523	B1	20050622		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001013974	A	20030701	BR 2001-13974	20010817
	JP 2004509880	T	20040402	JP 2002-529082	20010817
	AT 298323	T	20050715	AT 2001-964182	20010817
	ES 2241861	T3	20051101	ES 2001-964182	20010817
	MX 2003001277	A	20040730	MX 2003-1277	20030210
	US 20050004167	A1	20050106	US 2004-765002	20040126
PRAI	US 2000-233786P	P	20000919		
	US 2001-381068	B1	20010101		
	WO 2001-US25892	W	20010817		

OS MARPAT 136:279204
GI



I



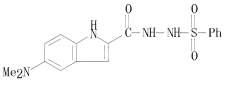
II

AB Title compds. I (R1, R2, R4, and R5 = H, halo, CN, NO2, aryl, (un)substituted-alkyl, -alkoxy, etc.; R3 = H, F, Br, alkyl, carboxy, (un)substituted alkoxy; Ar = (un)substituted-indole, -benzofuran, tricyclic heteroaryl, etc.) are prepared and disclosed as branched chain amino acid-dependent aminotransferase (BCAT) inhibitors. Thus, II was prepared by amidation of dibenzofurancarboxylic acid with hydrazine followed by sulfonylation with benzenesulfonyl chloride. In assays with human BCAT, I demonstrated inhibition in a range of concns. from 0.3 to >100μM. As BCAT inhibitors, I, their pharmaceutically acceptable salts and prodrugs thereof, are useful for treating or preventing neuronal loss associated with stroke, ischemia, CNS trauma, hypoglycemia and surgery, as well as treating neurodegenerative diseases including Alzheimer's disease, amyotrophic lateral sclerosis, Huntington's disease and Down's syndrome, treating or preventing the adverse consequences of the overstimulation of the excitatory amino acids, treating anxiety, psychosis, convulsions, aminoglycoside antibiotics-induced hearing loss, migraine headache, chronic pain, neuropathic pain, Parkinson's disease, diabetic retinopathy, glaucoma, CMV retinitis, urinary incontinence, opioid tolerance or withdrawal, and inducing anesthesia, as well as for enhancing cognition.

IT 406192-88-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocyclylcarbonyl derivs. of arylsulfonylhydrazides as branched chain amino acid-dependent aminotransferase inhibitors and their use in the treatment of neurodegenerative diseases)

RN 406192-88-9 CAPLUS

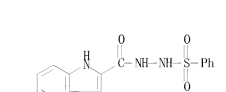
CN 1H-Indole-2-carboxylic acid, 5-(dimethylamino)-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



IT 406192-41-4P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(target compound; preparation of heterocyclylcarbonyl derivs. of arylsulfonylhydrazides as branched chain amino acid-dependent aminotransferase inhibitors and their use in the treatment of neurodegenerative diseases)

RN 406192-41-4 CAPLUS

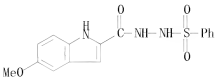
CN 1H-Indole-2-carboxylic acid, 5-nitro-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



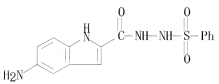
IT 22930-51-4P 406192-24-3P 406192-28-7P
406192-40-3P 406192-42-5P 406192-43-6P
406192-44-7P 406192-45-8P 406192-46-9P
406192-47-0P 406192-48-1P 406192-49-2P
406192-50-5P 406192-51-6P 406192-52-7P
406192-58-3P 406192-59-4P 406192-60-7P
406192-61-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compound; preparation of heterocyclylcarbonyl derivs. of arylsulfonylhydrazides as branched chain amino acid-dependent aminotransferase inhibitors and their use in the treatment of neurodegenerative diseases)

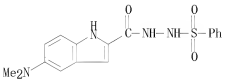
RN 22930-51-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



RN 406192-24-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-amino-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)

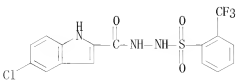


RN 406192-28-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-(dimethylamino)-, 2-(phenylsulfonyl)hydrazide, hydrochloride (1:1) (CA INDEX NAME)

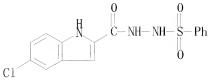


● HCl

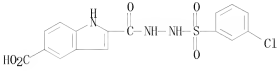
RN 406192-40-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[[2-(trifluoromethyl)phenyl]sulfonyl]hydrazide (CA INDEX NAME)



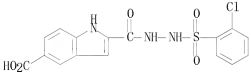
RN 406192-42-5 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



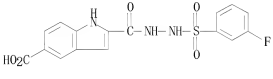
RN 406192-43-6 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-chlorophenyl)sulfonyl]hydrazide] (CA INDEX NAME)



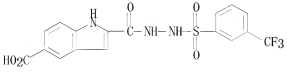
RN 406192-44-7 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(2-chlorophenyl)sulfonyl]hydrazide] (CA INDEX NAME)



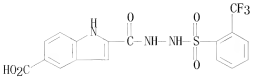
RN 406192-45-8 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-fluorophenyl)sulfonyl]hydrazide] (CA INDEX NAME)



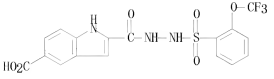
RN 406192-46-9 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[3-(trifluoromethyl)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)



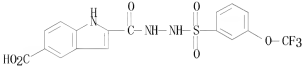
RN 406192-47-0 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[2-(trifluoromethyl)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)



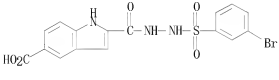
RN 406192-48-1 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[2-(trifluoromethoxy)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)



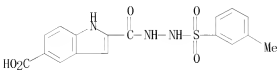
RN 406192-49-2 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[[3-(trifluoromethoxy)phenyl]sulfonyl]hydrazide] (CA INDEX NAME)



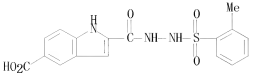
RN 406192-50-5 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-bromophenyl)sulfonyl]hydrazide] (CA INDEX NAME)



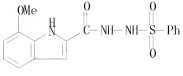
RN 406192-51-6 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(3-methylphenyl)sulfonyl]hydrazide] (CA INDEX NAME)



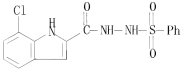
RN 406192-52-7 CAPLUS
CN 1H-Indole-2,5-dicarboxylic acid, 2-[2-[(2-methylphenyl)sulfonyl]hydrazide] (CA INDEX NAME)



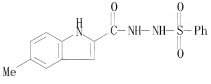
RN 406192-58-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methoxy-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



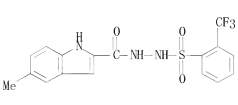
RN 406192-59-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-chloro-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



RN 406192-60-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methyl-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



RN 406192-61-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methyl-, 2-[[2-(trifluoromethyl)phenyl]sulfonyl]hydrazide (CA INDEX NAME)



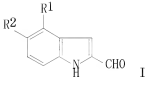
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1976:105389 CAPLUS
DN 84:105389
OREF 84:17159a,17162a

TI Blood sugar-lowering indole-2-carboxaldehydes
IN Huebner, Manfred; Heerdt, Ruth; Schmidt, Felix Helmut; Thiel, Max
PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

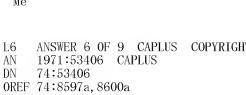
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2426439	A1	19751211	DE 1974-2426439	19740531
	US 4053624	A	19771011	US 1975-573214	19750430
	GB 1447474	A	19760825	GB 1975-22732	19750523
	CH 612423	A5	19790731	CH 1975-6851	19750528
	FR 2272663	A1	19751226	FR 1975-16784	19750529
	FR 2272663	B1	19790323		
	JP 51004167	A	19760114	JP 1975-65236	19750530
	AT 7504122	A	19770615	AT 1975-4122	19750530
	AT 341516	B	19780210		
	AT 7701030	A	19790215	AT 1977-1030	19770216
	AT 352112	B	19790910		
	CH 615421	A5	19800131	CH 1979-1930	19790227
PRAI	DE 1974-2426439	A	19740531		
	CH 1975-6851	A	19750528		
	AT 1975-4122	A	19770216		

GI



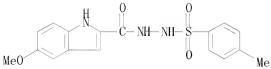
I

AB Indolecarboxaldehydes (I, R1 = Me, R2 = H, MeO, Me, Cl, EtO; R1 H, R2 = Et, Br), useful as antidiabetics (no data), were obtained by oxidation of the corresponding hydroxymethyl derivative with MnO2-CH2Cl2 30 hr at room temperature or CrO3-pyridine 2 hr at room temperature
IT 58518-52-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with sodium carbonate)
RN 58518-52-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-methyl-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)

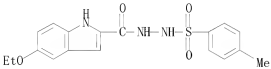


L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1971:53406 CAPLUS
DN 74:53406
OREF 74:8597a,8600a
TI Synthesis of indole-2-carbaldehydes, 2-(2-aminoethyl) - and 2-(2-aminopropyl)indoles
AU Siddappa, S.; Bhat, G. A.
CS Dep. Chem., Karnatak Univ., Dharwar, India

SO Journal of the Chemical Society [Section] C: Organic (1971), (1), 178-81
CODEN: JSOOAX; ISSN: 0022-4952
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Et indole-2-carboxylate derivs. (e.g. I) were reduced by LiAlH4 to indole-2-methanol derivs. (e.g. II). These were oxidized by MnO2 to indole-2-carboxaldehyde derivs. (e.g. III), which were also prepared from the indole-2-carboxylates by the McFadyen-Stevens reaction. The aldehydes reacted with MeNO2 and EtNO2, and the condensation products (e.g. IV and V) were reduced by LiAlH4 to 2-(2-aminoethyl)indoles (e.g. VI) and 2-(2-aminopropyl)indoles (e.g. VII), resp.
IT 22930-50-3P 30464-80-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 22930-50-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methoxy-,
2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)



RN 30464-80-3 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-ethoxy-,
2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)



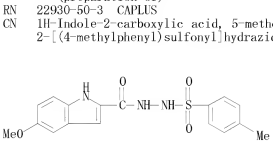
L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:412941 CAPLUS
DN 71:12941
OREF 71:2363a,2366a
TI Indole derivatives. XXV. Use of the ethyl ester of 5-methoxyindole-2-carboxylic acid and its hydrazide in reductions, chloroacylations, and the preparation of hydrazones
AU Mndzhoyan, A. L.; Papayan, G. L.; Gabrielyan, G. E.
CS Inst. Tonkoi Org. Khim., Erevan, USSR
SO Armyanskii Khimicheskii Zhurnal (1969), 22(1), 51-6
CODEN: AYKZAN; ISSN: 0515-9628
DT Journal
LA Russian
GI For diagram(s), see printed CA Issue.
AB A mixture of 0.1 mole 5-methoxyindole-2-carboxylic acid (I), 60 g. 85% N2H4.H2O, and 200 cc. EtOH heated on a water bath gave 85% I hydrazide (II), m. 236-8° . II heated with Me2CO and I drop AcOH gave 93.8% III (R = R1 = Me) (IV), m. 197-8° ;HCl salt m. 285-6° . II and p-Me2NC6H4CHO in EtOH gave 68.1% III (R = H, R1 = p-Me2NC6H4), m. 188-9° (HCONMe2); HCl salt m. 195-6° . A mixture of 0.01 mole II, 30 cc. freshly distilled AcCH2CO2Et, 1 drop AcOH, and 60 cc. C6H6 heated so as to remove H2O formed gave 44% III (R = Me, R1 = CH2CO2Et), m. 119-20° (EtOHEt2O); HCl salt m. 288-9° . Similarly was prepared 63.5% III [R = Me, R1 = (CH2)3CO2H], m. 185-6° (EtOH-Et2O). A mixture of 0.01 mole ClCH2COCl and 0.01 mole II in CHCl3 and AcOH heated on a water bath gave 76.3% I chloroacetylhydrazide (V), m. 226-7°

(dioxane-H2O). Similarly was prepared 64.5% I β-chloropropionylhydrazide, m. 211-12°. A mixture of 0.01 mole V, excess Et2NH, and dioxane kept 12 hrs. at room temperature, then heated gave 59.7% VI (R = CH2NEt2), m. 162-3°. Similarly was prepared 63% VI (R = CH2CH2NEt2), m. 100-2°. p-MeC6H4SO2Cl (1.9 g.) was added in small portions to 0.01 mole II in 25 cc. C5H5N, and the mixture kept at room temperature overnight and poured onto ice to give 92% 5-methoxyindole-3-carboxylic acid p-tolylsulfonylhydrazide, m. 233-4°. Similarly was prepared the phenylsulfonyl hydrazide, m. 221-2°, in 82% yield. A mixture of 0.01 mole II, 0.6 g. urea, and 30 cc. H2O boiled 18-20 hrs. gave 88.2% I semicarbazide, m. 198-9°. A mixture of 0.01 mole II, 0.01 mole phthalic anhydride, and 15 cc. HCONMe2 heated at 140-45° 4-5 hrs. gave 92% N-(5-methoxy-2-indoloylamino)phthalimide, m. 289-90°. A solution of 0.1 mole I in a mixture of Et2O and C6H6 was added dropwise to 0.76 g. LiAlH4 in Et2O, and the mixture heated on a water bath and worked up to give 79.1% 3-hydroxymethyl-5-methoxyindole, m. 78-9° (Et2O-petroleum ether). A mixture of 0.01 mole I, 25 cc. piperidine, and 5 cc. AcOH heated 6 hrs. gave 73.6% I piperidide, m. 196-7° (Me2CO-Et2O). SOCl2 and I in Et2O kept at room temperature 24 hrs., evaporated, and treated with concentrated NH3 gave 5-methoxyindole-2-carboxamide, m. 201-2°. Similarly was prepared 5-methoxyindole-2-[N,N-bis(p-chloroethyl)]carboxamide, m. 157-8° (EtOH-H2O). A solution of 0.004 mole III in 7 cc. HCONMe2 slowly added to 0.8 g. LiAlH4 in Et2O, heated, and decomposed with NH4Cl and NaOH gave 69% I N-isopropylhydrazide, m. 81-2°.

IT 22930-50-3P 22930-51-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

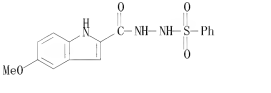
RN 22930-50-3 CAPLUS

CN 1H-Indole-2-carboxylic acid, 5-methoxy-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)



RN 22930-51-4 CAPLUS

CN 1H-Indole-2-carboxylic acid, 5-methoxy-, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1965:90729 CAPLUS

DN 62:90729

OREF 62:16177d-f

TI Synthetic studies in the indole field. VII. Synthesis of indole-2-carboxaldehydes

AU Dambal, S. B.; Siddappa, S.

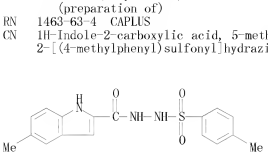
CS Karnatak Univ., Dharwar

SO Journal of the Indian Chemical Society (1965), 42(2), 112-14
CODEN: JICSAH; ISSN: 0019-4522

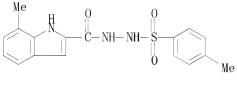
DT Journal

LA English

OS CASREACT 62:90729
GI For diagram(s), see printed CA Issue.
AB cf. CA 61, 16040c. Indole-2-carboxaldehydes were prepared by McFadyen-Stevens redns. of the corresponding indole-2-carboxylic acid derivs. Thus, 2.5 g. anhydrous K2CO3 added to I (R = CONHNHO2SC6H4Me-p, R1 = H, R2 = 5-Me) and 25 ml. HOCH2CH2OH at 160°, the mixture poured after 5 min. onto 500 g. ice, filtered, and the precipitate crystallized (EtOH) gave 90% I (R = CHO, R1 = H, R2 = 5-Me), m. 175-6°; 2,4-dinitrophenylhydrazine (DNP) derivative m. 285°. Similarly prepared were the following I (R = CHO) (R2, R2, m.p., % yield, and m.p. DNP derivative given): H, 7-Me, 190°, 45, 265°, Me, 5-Me, 140°, 90, 315°; and Me, 7-Me, 138°, 80, 276°. The following hydrazides I (R = CONHNH2) and their p-tosyl derivs. were prepared as intermediates (R1, R2, m.p., and m.p. of p-tolylsulfonyl derivative given): H, 5-Me, 249°, 251°; H, 7-Me, 261°, 220°; Me, 5-Me, 264°, 236°; and Me, 7-Me 245°, 243°.
IT 1463-63-4P, Hydrazine, 1-[(5-methylindol-2-yl)carbonyl]-2-(p-tolylsulfonyl)- 2898-94-4P, Hydrazine, 1-[(7-methylindol-2-yl)carbonyl]-2-(p-tolylsulfonyl)-
RL: PREP (Preparation)
(preparation of)
RN 1463-63-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-methyl-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)



RN 2898-94-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 7-methyl-, 2-[(4-methylphenyl)sulfonyl]hydrazide (CA INDEX NAME)



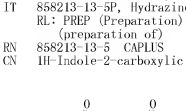
L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1956:77870 CAPLUS
DN 50:77870
OREF 50:14744g-i,14745a-b
TI Syntheses of antituberculous compounds. V. Derivatives of pyridine and indole
AU Kakimoto, Shichiro; Nishie, Jun
CS Hokkaido Univ., Sapporo
SO Japan. J. Tuberc. (1954), 2, 334-7
DT Journal
LA Unavailable
AB cf. C.A. 49, 1165g. A mixture of 0.4 g. 2-chloroisonicotinic acid, 0.1 g. Cu powder, and BuONa (prepared from 0.3 g. Na in 15 ml. BuOH) is refluxed 3 hrs., the solvent removed and the residue in H2O is acidified with dilute HCl to give 0.2 g. 2-butoxyisonicotinic acid (I), m. 120°. I (1.0 g.) is refluxed 2 hrs. with 6 ml. absolute EtOH containing 2 ml. concentrated H2SO4, and the solution poured into 30 ml. H2O, made alkaline with K2CO3 and extracted with Et2O. The ether is evaporated and the residue refluxed 6 hrs. with 2 ml. 60% N2H4.H2O in 20 ml. EtOH to give after recrystn. from EtOH 0.6 g.

2-butoxyisonicotinic acid hydrazide, m. 104° . To 10 g. NaNH2 in 20 ml. Decalin, 10 g. 4-methylpyridine is added and the mixture heated 10 hrs. at 140-50° . On cooling and treatment with water 8.5 g. 2-amino-4-methylpyridine (II), m. 102° , is obtained. II (1.0 g.) in 1 ml. Ac0H refluxed 2 hrs. with 2 ml. Ac20 gives 1.0 g. 2-acetamido-4-methylpyridine (III), m. 104° . III (1.0 g.) in 100 ml. H20 containing 1.7 g. MgSO4 is oxidized with 1.5 g. KMn04 under reflux, stirred 4 hrs. at 60° , the mixture is filtered, and the filtrate concentrated to 15 ml. and cooled. The oily substance deposited is filtered off and the filtrate acidified with AcOH. Purification of the precipitated material gives 0.5 g. 2-aminoisonicotinic acid (IV), m. above 300° ; Et ester, m. 25° (crude), converted to 2-aminoisonicotinic acid hydrazide, m. 189° . 2-Indolecarboxylic acid (1.2 g.) in 45 ml. MeOH saturated with dry HCl at 0° , and left 12 hrs. gives 1.0 g. Me ester, m. 148-9° . The ester is converted to the hydrazide (V), m. 225° (decomposition). V (1.1 g.) in 9 ml. C5H5N is treated with 1.3 g. PhSO2Cl with cooling and allowed to stand 5 hrs. The mixture is evaporated to dryness in vacuo to give on recrystn. from 60% EtOH 7.5 g. 2-indolecarboxylic acid benzenesulfonylhydrazide (VI), m. 231° (decomposition) A mixture of 0.5 g. VI, 0.35 g. Na2CO3, 0.25 g. thiosemicarbazide, and 5 ml. glycerol is heated 2 min. at 130° , cooled, and diluted with 10 ml. H20 to give 0.15 g. 2-indolecarboxaldehyde thiosemicarbazone, yellow needles, m. 231° (decomposition).

IT 858213-13-5P, Hydrazine, 1-(2-indolylcarbonyl)-2-(phenylsulfonyl)-
RL: PREP (Preparation)
(preparation of)

RN 858213-13-5 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2-(phenylsulfonyl)hydrazide (CA INDEX NAME)



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D
L2 STRUCTURE UPLOADED
D
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D SCAN
L4 42 SEA SSS FUL L2
D L1
D L2
D QUE L4 STAT
L5 28 SEA ABB=ON PLU=ON L4 AND ED<3/8/2004
D 1-28 IDE CAN

FILE 'CAPLUS' ENTERED AT 15:01:51 ON 15 APR 2009
L6 9 SEA ABB=ON PLU=ON L4
D 1-9 BIB ABS HITSTR

FILE HOME

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file

provided by InfoChem.

STRUCTURE FILE UPDATES: 14 APR 2009 HIGHEST RN 1134418-75-9
DICTIONARY FILE UPDATES: 14 APR 2009 HIGHEST RN 1134418-75-9

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http://www.cas.org/support/stngen/stndoc/properties.html

FILE CAPLUS

FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	51.26	309.11
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.38	-7.38

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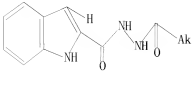
L7 STR



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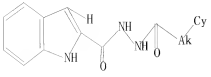

Structure attributes must be viewed using STN Express query preparation.
L9 4 SEA FILE=REGISTRY SSS SAM L7 NOT L8

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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
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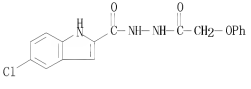
L9 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
RN 864658-93-5 REGISTRY
ED Entered STN: 07 Oct 2005
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(2-phenoxyacetyl)hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(phenoxyacetyl)hydrazide (9CI)
MF C17 H14 Cl N3 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

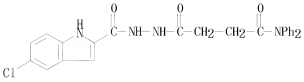


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

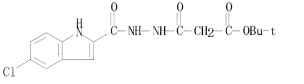
REFERENCE 1: 143:306169

L9 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
RN 736964-94-6 REGISTRY
ED Entered STN: 01 Sep 2004
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-[4-(diphenylamino)-1,4-dioxobutyl]hydrazide (CA INDEX NAME)
MF C25 H21 Cl N4 O3
SR Chemical Library
Supplier: Vitas-M
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
RN 521963-27-9 REGISTRY
ED Entered STN: 30 May 2003
CN Propanedioic acid, 1-(1,1-dimethylethyl) ester,
3-[2-[(5-chloro-1H-indol-2-yl)carbonyl]hydrazide] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanedioic acid, mono(1,1-dimethylethyl) ester,
2-[(5-chloro-1H-indol-2-yl)carbonyl]hydrazide (9CI)
MF C16 H18 Cl N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

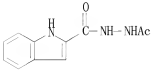


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:368761

L9 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
RN 37574-75-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)
MF C11 H11 N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331407

REFERENCE 2: 110:231529

REFERENCE 3: 102:131867

REFERENCE 4: 101:230417

REFERENCE 5: 88:22764

REFERENCE 6: 77:139989

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FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate
substance identification.
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L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1004705 CAPLUS
DN 143:306169
TI Indole-2-carboxylic acid hydrazides
IN Bradley, Stuart Edward; Jeevaratnam, Revathy Perpetua; Krulle, Thomas Martin; Procter, Martin James; Rowley, Robert John; Thomas, Gerard Hugh; Valdes, Ana
PA Prosidion Limited, UK
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005085194	A2	20050915	WO 2005-GB872	20050308
	WO 2005085194	A3	20060105		
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
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MR, NE, SN, TD, TG

EP 1768957 A2 20070404 EP 2005-717940 20050308
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IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA,
HR, LV, MK, YU

JP 2007527903 T 20071004 JP 2007-502386 20050308

US 20080188472 A1 20080807 US 2007-592011 20071022

PRAI US 2004-551255P P 20040308

WO 2005-GB872 W 20050308

OS CASREACT 143:306169; MARPAT 143:306169

GI

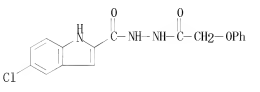
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Compds. of formula I [wherein Y = -C(O)-, -S(O)2-, or -C(NH)-; Z = C1-4alkylene, O, -(CH2)m0-, -0(CH2)m, etc. (m = 1-4); R1, R2 = independently halogen, hydroxym cyano, etc.; R3 = CO-4alkyl, C1-4alkoxyC1-3alkyl-, hydroxyC1-4alkyl, etc.; R4 = H, -COOCO-4alkyl, C1-4alkyl, etc.] or pharmaceutically acceptable salts thereof, were prepared as inhibitors of glycogen phosphorylase. Thus, a solution of 5-chloro-1H-indole-2-carboxylic acid hydrazide (II) in 1,4-dioxane was treated with phenylmethanesulfonyl chloride and DIPEA for 16H at room temperature to provide 5-chloro-1H-indole-2-carboxylic acid N'-(phenylmethanesulfonyl)hydrazide (III). Compds. of formula I are useful in the prophylactic or therapeutic treatment of diabetes, hyperglycemia, hypercholesterolemia, hyperinsulinemia, hyperlipidemia, hypertension, atherosclerosis or tissue ischemia, e.g. myocardial ischemia, or as cardioprotectants or inhibitors of abnormal cell growth.

IT 864658-93-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indole-2-carboxylic acid hydrazides as inhibitors of glycogen phosphorylase)

RN 864658-93-5 CAPLUS

CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(2-phenoxyacetyl)hydrazide (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2003:356418 CAPLUS

DN 138:368761

TI Preparation of indole derivatives as inhibitors of human liver glycogen phosphorylase a

IN Nakamura, Takeshi; Takagi, Masaki; Ueda, Nobuhisa

PA Japan Tobacco Inc., Japan
SO PCT Int. Appl., 237 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037864	A1	20030508	WO 2002-JP11234	20021029
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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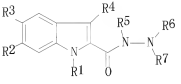
	CA 2465382	A1	20030508	CA 2002-2465382	20021029
	AU 2002344600	A1	20030512	AU 2002-344600	20021029
	JP 2003201279	A	20030718	JP 2002-315100	20021029
	EP 1452526	A1	20040901	EP 2002-777995	20021029
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	US 20050054696	A1	20050310	US 2004-493853	20041021
PRAI	JP 2001-331501	A	20011029		
	WO 2002-JP11234	W	20021029		

OS MARPAT 138:368761
GI



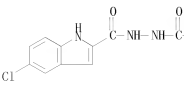
I

AB The title compds. I [R1 = H, alkyl, etc.; R2 = H, halo; R3 = halo, alkyl, etc.; R4 = H, alkyl; R5 = H, alkyl, alkoxycarbonyl; R6 = H, alkyl, etc.; R7 = C(:X)AB; X = O, etc.; A = NR8, etc.; R8 = H, alkyl, etc.; B = (un)substituted Ph, etc.] are prepared I are useful in the treatment of diabetes. Compds. of this invention in vitro showed IC50 values of 0.010 μM to > 0.1 μM against human liver glycogen phosphorylase a.

IT 521963-27-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of indole derivs. as inhibitors of human liver glycogen phosphorylase a)

RN 521963-27-9 CAPLUS

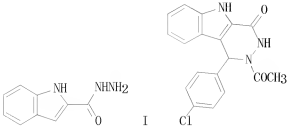
CN Propanedioic acid, 1-(1,1-dimethylethyl) ester, 3-[2-[(5-chloro-1H-indol-2-yl)carbonyl]hydrazide] (CA INDEX NAME)



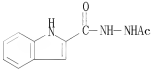
RE.CNT 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:596440 CAPLUS
DN 135:331407
TI On the synthesis and reactions of indole-2-carboxylic acid hydrazide
AU Sarhan, Abd El-Wareth A. O.
CS Chemistry Department, Faculty of Science, Assiut University, Assiut, 71516, Egypt
SO Monatshefte fuer Chemie (2001), 132(6), 753-763
CODEN: MOCMB7; ISSN: 0026-9247
PB Springer-Verlag Wien
DT Journal
LA English
OS CASREACT 135:331407
GI



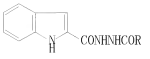
AB Indole-2-carboxylic acid hydrazide (I) was prepared and allowed to react with aromatic aldehydes in acidic medium to give the corresponding hydrazone derivs. in good yields. The hydrazones were cyclized to indolo[2,3-d]pyridazine derivs., e.g. II, by refluxing with acetyl chloride. The indole carbohydrazide was converted to 2-triazolylindoles which acted as starting materials for several indole derivs. A number of new indole derivs. were also prepared and structurally confirmed.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and reactions of indole-2-carboxylic acid hydrazide)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



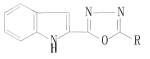
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1989:231529 CAPLUS
DN 110:231529
OREF 110:38383a,38386a
TI Synthesis and study of new indolyl-containing 1,3,4-oxadiazoles
AU Dzhaparidze, Z. Sh.; Basiladze, M. N.; Laliashvili, M. G.; Samsoniya, Sh. A.
CS NII Stabil'n. Izotopov, USSR
SO Soobshcheniya Akademii Nauk Gruzinskoi SSR (1988), 130(3), 565-8
CODEN: SAKNAH; ISSN: 0002-3167

DT Journal
LA Russian
OS CASREACT 110:231529
GI

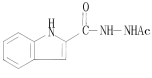


I

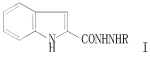


II

AB Acylation of indole-2-acetic acid hydrazide by RCOCl (R = Me, Ph, o-HO2CC6H4, ClCH2CH2, o-O2NC6H4) in AcNMe2 3 h at 5-15° gave 73-87% indoles I which were cyclodehydrated by POCl3 1 h at 60-80° to give 54-69% oxadiazoles II.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclodehydration of, indolyloxadiazole from)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



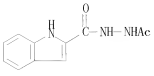
L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1985:131867 CAPLUS
DN 102:131867
OREF 102:20691a,20694a
TI Synthesis of N-acyl-N'-(2-indolylcarbonyl) hydrazides and their physiological activity
AU Zhang, Mingzhe; He, Meiyu
CS Dep. Chem., Peking Univ., Beijing, Peop. Rep. China
SO Yaoxue Xuebao (1984), 19(10), 737-41
CODEN: YHHPAL; ISSN: 0513-4870
DT Journal
LA Chinese
GI



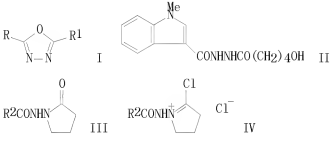
I

AB Title compds. (I, R = COR1) were prepared by acylation of I (R = H) with R1COCl. I (R = CHO, Ac) and 2-(2-ethyl-1,3,4-oxadiazol-5-yl)-1H-indole inhibited the growth of Mycobacterium tuberculosis.
IT 37574-75-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antitubercular activity of)
RN 37574-75-7 CAPLUS

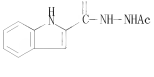
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:630417 CAPLUS
DN 101:230417
OREF 101:34989a,34992a
TI Preparation of some indolyl-1,3,4-oxadiazoles and related compounds
AU Monge Vega, A.; Rabbani, M. M.; Fernandez-Alvarez, E.
CS Fac. Farm., Univ. Navarra, Pamplona, Spain
SO Boletin de la Sociedad Quimica del Peru (1983), 49(2), 120-30
CODEN: BSQPAQ; ISSN: 0037-8623
DT Journal
LA Spanish
OS CASREACT 101:230417
GI

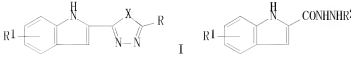


AB RCONHNHCOR1 (R = 2- or 3-indolyl or N-methylindolyl, R1 = H, Me) were prepared by acylation of RCONHNH2 with RCONMe2 and cyclized to oxadiazole derivs. I using POCl3. II was cleaved by POCl3 to give the hydrazide and γ-valerolactone. Attempted cyclization of III (R2 = 3-indolyl) with POCl3 gave IV.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



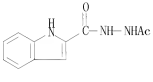
L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1978:22764 CAPLUS
DN 88:22764
OREF 88:3653a,3656a

TI as-Triazino[4,5-a]indoles. I. Indole derivatives
AU Robba, M.; Maume, D.; Lancelot, J. C.
CS Lab. Pharm. Chim., UER Sci. Pharm., Caen, Fr.
SO Bulletin de la Societe Chimique de France (1977), (3-4, Pt. 2), 333-6
CODEN: BSCFAS; ISSN: 0037-8968
DT Journal
LA French
OS CASREACT 88:22764
GI

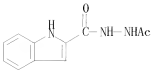


I II

AB Oxadiazolylindoles I (X = O; R = H, Me, CH2Cl, CHCl2, CCl3, Ph, R1 = H; R = H, Me, R1 = 4-Cl; R = H, R1 = 4-Br, 6-Br) were obtained by acylating indoles II (R2 = H) and cyclizing resultant II (R2 = COR) with POCl3. I (R = H, Me, R1 = H, X = S) were similarly obtained with P2S5.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1972:539989 CAPLUS
DN 77:139989
OREF 77:23021a,23024a
TI Conditions of access to as-triazino(4,5-a)indole
AU Robba, M.; Maume, D.
CS Lab. Pharm. Chim., U.E.R. Sci. Pharm., Caen, Fr.
SO Tetrahedron Letters (1972), (23), 2333-5
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA French
GI For diagram(s), see printed CA Issue.
AB The as-triazinoindoles (I, R = H, Me) were prepared by base-catalyzed rearrangement of oxadiazolylindoles (II, R = H, Me, ClCH2, Cl2CH, Ph) which in turn were prepared by cyclizing in-dolylacylhydrazides RICONHNHCOR (III, R1 = 2-indolyl; R = H, Me, ClCH2, Cl2CH, Ph). Thus, III (R1 = 2-indolyl, R = Me) was refluxed with POCl3 to give II (R = Me) which was refluxed in KOPr-PrOH to give I (R = Me). Treating III (R = OEt) with POCl3 gave the oxadiazolinone analog of II, whereas treating the former with KOPr-PrOH gave 2,3-dihydroas-triazino[4,5-a indole-1,4-dione.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



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                  D SCAN
L4             42 SEA SSS FUL L2
                  D L1
                  D L2
                  D QUE L4 STAT
L5             28 SEA ABB=ON  PLU=ON  L4 AND ED<3/8/2004
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                  D 1-9 BIB ABS HITSTR

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L8                STRUCTURE UPLOADED
                  D
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                  D QUE L9 STAT
                  D 1-4 IDE CAN

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L10             8 SEA ABB=ON  PLU=ON  L9
                  D 1-8 BIB ABS HITSTR


     FILE HOME

     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.

     STRUCTURE FILE UPDATES:   14 APR 2009  HIGHEST RN 1134418-75-9
     DICTIONARY FILE UPDATES:  14 APR 2009  HIGHEST RN 1134418-75-9

     New CAS Information Use Policies, enter HELP USAGETERMS for details.

     TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

       Please note that search-term pricing does apply when
       conducting SmartSELECT searches.

     REGISTRY includes numerically searchable data for experimental and
     predicted properties as well as tags indicating availability of
     experimental property data in the original document.  For information
     on property searching in REGISTRY, refer to:
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http://www.cas.org/support/stngen/stndoc/properties.html

FILE CAPLUS

FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

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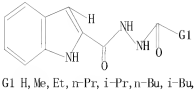

G1 H,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.
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100.0% PROCESSED 4006 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

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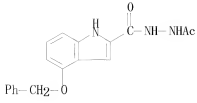
L13 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1020271-40-2 REGISTRY
ED Entered STN: 12 May 2008
CN 1H-Indole-2-carboxylic acid, 4-(phenylmethoxy)-, 2-acetylhydrazide (CA INDEX NAME)
MF C18 H17 N3 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

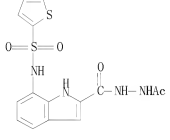


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:472052

L13 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 913284-17-0 REGISTRY
ED Entered STN: 15 Nov 2006
CN 1H-Indole-2-carboxylic acid, 7-[(2-thienylsulfonyl)amino]-, 2-acetylhydrazide (CA INDEX NAME)
MF C15 H14 N4 O4 S2
SR CA
LC STN Files: CA, CAPLUS



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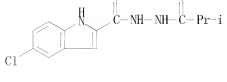
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:454930

L13 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 864658-96-8 REGISTRY
ED Entered STN: 07 Oct 2005
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(2-methyl-1-oxopropyl)hydrazide (CA INDEX NAME)
MF C13 H14 Cl N3 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



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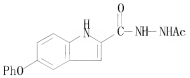
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

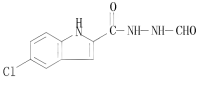
REFERENCE 1: 143:306169

L13 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 737794-11-5 REGISTRY
ED Entered STN: 02 Sep 2004
CN 1H-Indole-2-carboxylic acid, 5-phenoxy-, 2-acetylhydrazide (CA INDEX NAME)
MF C17 H15 N3 O3
SR Chemical Library
Supplier: Vitas-M
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 110448-43-6 REGISTRY
ED Entered STN: 27 Sep 1987
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-formylhydrazide (CA INDEX NAME)
MF C10 H8 Cl N3 O2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

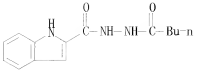


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:154287

L13 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 95446-27-8 REGISTRY
ED Entered STN: 23 Mar 1985
CN 1H-Indole-2-carboxylic acid, 2-(1-oxopentyl)hydrazide (CA INDEX NAME)
MF C14 H17 N3 O2
LC STN Files: CA, CAPLUS

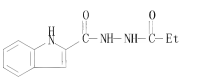


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 102:131867

L13 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 95446-26-7 REGISTRY
ED Entered STN: 23 Mar 1985
CN 1H-Indole-2-carboxylic acid, 2-(1-oxopropyl)hydrazide (CA INDEX NAME)
MF C12 H13 N3 O2
LC STN Files: CA, CAPLUS, CHEMCATS

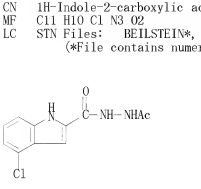


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 102:131867

L13 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 64932-63-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 4-chloro-, 2-acetylhydrazide (CA INDEX NAME)
MF C11 H10 Cl N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)



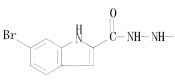
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 88:22764

L13 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN

RN 64932-53-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 6-bromo-, 2-formylhydrazide (CA INDEX NAME)
MF C10 H8 Br N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)



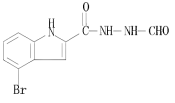
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 88:105274

REFERENCE 2: 88:22764

L13 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 64932-52-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 4-bromo-, 2-formylhydrazide (CA INDEX NAME)
MF C10 H8 Br N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

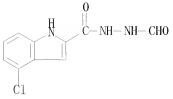


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 88:22764

L13 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 64932-51-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 4-chloro-, 2-formylhydrazide (CA INDEX NAME)
MF C10 H8 Cl N3 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

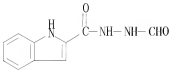


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 88:22764

L13 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 64932-49-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)
MF C10 H9 N3 02
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331407

REFERENCE 2: 102:131867

REFERENCE 3: 101:230417

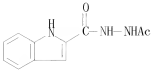
REFERENCE 4: 101:230416

REFERENCE 5: 93:71713

REFERENCE 6: 88:105274

REFERENCE 7: 88:22764

L13 ANSWER 13 OF 13 REGISTRY COPYRIGHT 2009 ACS on STN
RN 37574-75-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)
MF C11 H11 N3 02
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:331407

REFERENCE 2: 110:231529

REFERENCE 3: 102:131867

REFERENCE 4: 101:230417

REFERENCE 5: 88:22764

REFERENCE 6: 77:139989

=> fil capl
FILE 'CAPLUS' ENTERED AT 15:11:20 ON 15 APR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.
'.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s l13
L14 13 L13

=> d 1-13 bib abs hitstr

L14 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:492996 CAPLUS
DN 148:472052

TI Phenoxypropylamine compounds as 5-HT reuptake inhibitors and their preparation, pharmaceutical compositions and use in the treatment of depression

IN Nishiyama, Akira; Bougauchi, Masahiro; Kuroita, Takanobu; Minoguchi, Masanori; Morio, Yasunori; Kanzaki, Kouji

PA Mitsubishi Pharma Corporation, Japan

SO U.S. Pat. Appl. Publ., 162pp., Cont.-in-part of Appl. No. PCT/JP2000/03279.
CODEN: USXXCO

DT Patent

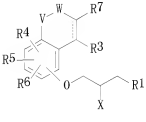
LA English

FAN.CNT 2

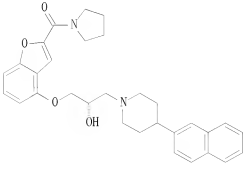
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20020111358	A1	20020815	US 2001-990389	20011123
	US 6720320	B2	20040413		
	WO 2000071517	A1	20001130	WO 2000-JP3279	20000522
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	ZA 2001010137	A	20030225	ZA 2001-10137	20011210
	US 20040138227	A1	20040715	US 2003-740418	20031222
	US 7196199	B2	20070327		
PRAI	JP 1999-142750	A	19990524		
	JP 1999-166160	A	19990614		
	JP 1999-277384	A	19990929		
	JP 2000-18080	A	20000125		
	WO 2000-JP3279	A2	20000522		
	US 2001-990389	A3	20011123		

OS CASREACT 148:472052; MARPAT 148:472052

GI



I



II

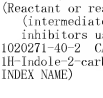
AB The invention relates to a phenoxypropylamine compound of the formula I

wherein each symbol is as defined in the specification, an optically active compound thereof or a pharmaceutically acceptable salt thereof and hydrates thereof, which simultaneously show selective affinity for and antagonistic activity against 5-HT1A receptor, as well as 5-HT reuptake inhibitory activity, and can be used as antidepressants quick in expressing an anti-depressive effect. Compds. of formula I wherein dotted line is a single or double bond; X is H, OH, C1-6 alkoxy, acyloxy, and oxo; R1 is spiropiperidine, N-substituted piperazine, substituted piperidine and substituted tetrahydropyridine; provided that when R1 is N-substituted piperazine, X should not be H; R3 is H, C1-18 alkyl, and halo; V is CH2, O, S, and NH and derivs.; W is CH2 and CO; R7 is C1-4 hydroxyalkyl, acyl, (un)substituted (un)saturated heterocycle, (un)substituted fused heterocycle, C1-4 alkylsulfonyl, etc.; R4, R5, R6 are independently H, C1-18 alkyl, OH, C1-8 alkoxy, halo, acyl, NO2, and amino; R7W taken together to form a ring; provided that when R7 and W forms a ring, R4 - R6 are not each OH and C1-6 alkoxy; pharmaceutically acceptable salts and hydrates thereof; are claimed. Example compound II was prepared by amidation of (S)-1-(4-glycidyloxybenzo[b]furan-2-ylcarbonyl)pyrrolidine with 4-(naphthalen-2-yl)piperidine. All the invention compds. were evaluated for their 5-HT reuptake inhibitory activity (some data given).

IT 1020271-40-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of phenoxypropylamine compds. as 5-HT reuptake inhibitors useful in the treatment of depression)

RN 1020271-40-2 CAPLUS

CN 1H-Indole-2-carboxylic acid, 4-(phenylmethoxy)-, 2-acetylhydrazide (CA INDEX NAME)

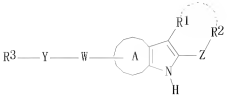


Ph—CH2—O

L14 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:1122595 CAPLUS
DN 145:454930
TI Preparation of indoles and related compounds as glucokinase activators
IN Yasuma, Tsuneo; Ujikawa, Osamu; Iwata, Hidehisa
PA Takeda Pharmaceutical Company Limited, Japan
SO PCT Int. Appl., 379pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006112549	A1	20061026	WO 2006-JP308790	20060420
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

CA 2605778 A1 20061026 CA 2006-2605778 20060420
EP 1873144 A1 20080102 EP 2006-732396 20060420
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
PRAI JP 2005-123018 A 20050420
JP 2005-359656 A 20051213
WO 2006-JP308790 W 20060420
OS MARPAT 145:454930
GI



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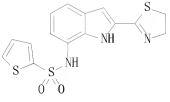


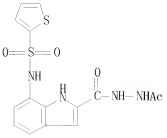
II

AB Title compds. I [ring A = (un)substituted 6-membered ring; W = O, S(O)m, CR5R6, etc.; m = 0-2; R5, R6 = H, alkyl; Y = bond, CO, S(O)p, etc.; p = 0-2; R3 = (un)substituted hydrocarbon, (un)substituted hydroxy; (un)substituted mercapto, etc.; Z = bond, CO, O, etc.; R1 = H, halo, (un)substituted hydrocarbon, etc.; R2 = H, (un)substituted hydrocarbon, (un)substituted hydroxy, etc.; R1 and R2 may combine to form (un)substituted cycle.], salts or prodrugs thereof were prepared For example, treatment of 7-[(2-thienylsulfonyl)amino]-1H-indole-2-carboxamide, e.g., prepared from 7-[(2-thienylsulfonyl)amino]-1H-indole-2-carboxylic acid Et ester in 2 steps, with trifluoroacetic anhydride, followed by reaction with 2-aminoethanethiol afforded compound II. In glucokinase (GK) activation assays, the EC50 value of compound II was 0.11 μM. Compds. I are claimed useful for the treatment of diabetes and obesity.

IT 913284-17-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of indoles and related compds. as glucokinase activators for treatment of diabetes and obesity)

RN 913284-17-0 CAPLUS

CN 1H-Indole-2-carboxylic acid, 7-[(2-thienylsulfonyl)amino]-, 2-acetylhydrazide (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1004705 CAPLUS
DN 143:306169
TI Indole-2-carboxylic acid hydrazides
IN Bradley, Stuart Edward; Jeevaratnam, Revathy Perpetua; Krulle, Thomas Martin; Procter, Martin James; Rowley, Robert John; Thomas, Gerard Hugh; Valdes, Ana
PA Prosidion Limited, UK
SO PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005085194	A2	20050915	WO 2005-GB872	20050308
WO 2005085194	A3	20060105		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1768957	A2	20070404	EP 2005-717940	20050308
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU				
JP 2007527903	T	20071004	JP 2007-502386	20050308
US 2008188472	A1	20080807	US 2007-592011	20071022
PRAI US 2004-551255P	P	20040308		
WO 2005-GB872	W	20050308		

OS CASREACT 143:306169; MARPAT 143:306169
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

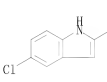
AB Compds. of formula I [wherein Y = -C(O)-, -S(O)2-, or -C(NH)-; Z = C1-4alkylene, O, -(CH2)mO-, -O(CH2)m, etc. (m = 1-4); R1, R2 = independently halogen, hydroxym cyano, etc.; R3 = CO-4alkyl, C1-4alkoxyC1-3alkyl-, hydroxyC1-4alkyl, etc.; R4 = H, -COOCO-4alkyl, C1-4alkyl, etc.] or pharmaceutically acceptable salts thereof, were prepared as inhibitors of glycogen phosphorylase. Thus, a solution of

5-chloro-1H-indole-2-carboxylic acid hydrazide (II) in 1,4-dioxane was treated with phenylmethanesulfonyl chloride and DIPEA for 16H at room temperature to provide 5-chloro-1H-indole-2-carboxylic acid N'-(phenylmethanesulfonyl)hydrazide (III). Compds. of formula I are useful in the prophylactic or therapeutic treatment of diabetes, hyperglycemia, hypercholesterolemia, hyperinsulinemia, hyperlipidemia, hypertension, atherosclerosis or tissue ischemia, e.g. myocardial ischemia, or as cardioprotectants or inhibitors of abnormal cell growth.

IT 864658-96-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indole-2-carboxylic acid hydrazides as inhibitors of glycogen phosphorylase)

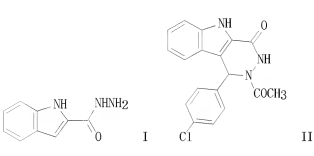
RN 864658-96-8 CAPLUS

CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-(2-methyl-1-oxopropyl)hydrazide (CA INDEX NAME)



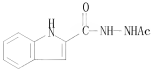
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:596440 CAPLUS
DN 135:331407
TI On the synthesis and reactions of indole-2-carboxylic acid hydrazide
AU Sarhan, Abd El-Wareth A. O.
CS Chemistry Department, Faculty of Science, Assiut University, Assiut, 71516, Egypt
SO Monatshefte fuer Chemie (2001), 132(6), 753-763
CODEN: MOCMB7; ISSN: 0026-9247
PB Springer-Verlag Wien
DT Journal
LA English
OS CASREACT 135:331407
GI

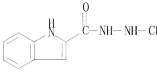


AB Indole-2-carboxylic acid hydrazide (I) was prepared and allowed to react with aromatic aldehydes in acidic medium to give the corresponding hydrazone derivs. in good yields. The hydrazones were cyclized to indolo[2,3-d]pyridazine derivs., e.g. II, by refluxing with acetyl chloride. The indole carbohydrazide was converted to 2-triazolylindoles which acted as starting materials for several indole derivs. A number of new indole derivs. were also prepared and structurally confirmed.

IT 37574-75-7P 64932-49-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and reactions of indole-2-carboxylic acid hydrazide)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)

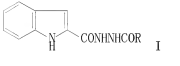


RN 64932-49-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)



RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1989:231529 CAPLUS
DN 110:231529
OREF 110:38383a,38386a
TI Synthesis and study of new indolyl-containing 1,3,4-oxadiazoles
AU Dzhaparidze, Z. Sh.; Basiladze, M. N.; Laliashvili, M. G.; Samsoniya, Sh. A.
CS NII Stabil'n. Izotopov, USSR
SO Soobshcheniya Akademii Nauk Gruzinskoi SSR (1988), 130(3), 565-8
CODEN: SAKNAH; ISSN: 0002-3167
DT Journal
LA Russian
OS CASREACT 110:231529
GI



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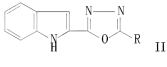
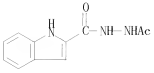
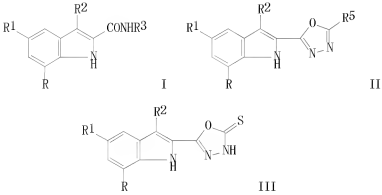


II

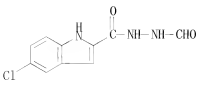
AB Acylation of indole-2-acetic acid hydrazide by RCOCl (R = Me, Ph, o-HO2CC6H4, ClCH2CH2, o-O2NC6H4) in AcNMe2 3 h at 5-15° gave 73-87% indoles I which were cyclodehydrated by POCl3 1 h at 60-80° to give 54-69% oxadiazoles II.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclodehydration of, indoyloxadiazole from)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



L14 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1987:554287 CAPLUS
DN 107:154287
OREF 107:24829a,24832a
TI Synthesis of substituted 2-(1',3',4'-oxadiazol-2'-yl)indoles
AU Sinnur, K. H.; Siddappa, S.; Hiremath, Shivayogi R.; Purohit, Muralidhar G.
CS Dep. Chem., Gulbarga Univ., Gulbarga, 585 106, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1986), 25B(7), 716-20
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English
OS CASREACT 107:154287
GI

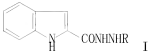


AB The indole derivs. I (R = H, Cl, Br; R1 = Me, Cl, PhCH2O; R2 = H, Me; R3 = N:CHR4; R4 = Et, Ph, 4-MeOC6H4), II (R5 = H, R4) and III were prepared from I (R3 = NH2) and tested for their antibacterial activity.
IT 110448-43-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 110448-43-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-chloro-, 2-formylhydrazide (CA INDEX NAME)



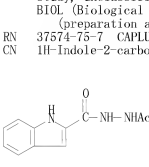
L14 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1985:131867 CAPLUS

DN 102:131867
OREF 102:20691a,20694a
TI Synthesis of N-acyl-N'-(2-indolylcarbonyl) hydrazides and their physiological activity
AU Zhang, Mingzhe; He, Meiyu
CS Dep. Chem., Peking Univ., Beijing, Peop. Rep. China
SO Yaoxue Xuebao (1984), 19(10), 737-41
CODEN: YHHPAL; ISSN: 0513-4870
DT Journal
LA Chinese
GI

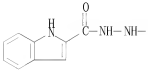


I

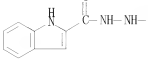
AB Title compds. (I, R = COR1) were prepared by acylation of I (R = H) with R1COCl. I (R = CHO, Ac) and 2-(2-ethyl-1,3,4-oxadiazol-5-yl)-1H-indole inhibited the growth of Mycobacterium tuberculosis.
IT 37574-75-7P 64932-49-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antitubercular activity of)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



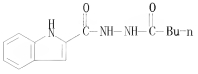
RN 64932-49-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)



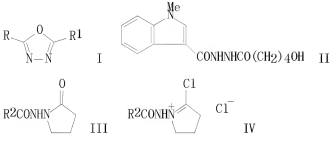
IT 95446-26-7P 95446-27-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 95446-26-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(1-oxopropyl)hydrazide (CA INDEX NAME)



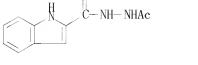
RN 95446-27-8 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-(1-oxopentyl)hydrazide (CA INDEX NAME)



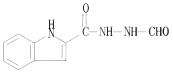
L14 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:630417 CAPLUS
DN 101:230417
OREF 101:34989a,34992a
TI Preparation of some indolyl-1,3,4-oxadiazoles and related compounds
AU Monge Vega, A.; Rabbani, M. M.; Fernandez-Alvarez, E.
CS Fac. Farm., Univ. Navarra, Pamplona, Spain
SO Boletin de la Sociedad Quimica del Peru (1983), 49(2), 120-30
CODEN: BSQPAQ; ISSN: 0037-8623
DT Journal
LA Spanish
OS CASREACT 101:230417
GI



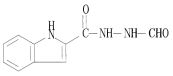
AB RCONHNHCOR1 (R = 2- or 3-indolyl or N-methylindolyl, R1 = H, Me) were prepared by acylation of RCONHNH2 with RCONMe2 and cyclized to oxadiazole derivs. I using POCl3. II was cleaved by POCl3 to give the hydrazide and γ-valerolactone. Attempted cyclization of III (R2 = 3-indolyl) with POCl3 gave IV.
IT 37574-75-7P 64932-49-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



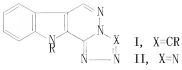
RN 64932-49-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)



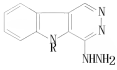
L14 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:630416 CAPLUS
DN 101:230416
OREF 101:34989a,34992a
TI Reactions of indolecarbohydrazides with lactones
AU Monge Vega, A.; Rabbani, M. M.; Fernandez-Alvarez, E.
CS Fac. Farm., Univ. Navarra, Pamplona, Spain
SO Boletin de la Sociedad Quimica del Peru (1983), 49(2), 110-19
CODEN: BSQPAQ; ISSN: 0037-8623
DT Journal
LA Spanish
OS CASREACT 101:230416
GI For diagram(s), see printed CA Issue.
AB Reactions of 2- or 3-indolecarbohydrazide and their 1-Me derivs. with γ-butyrolactone and γ- or δ-valerolactone were studied in the absence or presence of solvents (Ph2O, DMF, dioxane). Products RCONHNHCO(CH2)nOH (R = indolyl residue, n = 3 or 4), RCONHNHCOR, I, and oxadiazoles II were identified. BzNHNH2 reacted with lactones to give (BzNH)2.
IT 64932-49-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 64932-49-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)



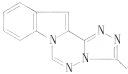
L14 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1980:471713 CAPLUS
DN 93:71713
OREF 93:11665a,11668a
TI The synthesis of 11H-1,2,4-triazolo[4,3-b]pyridazino[4,5-b]indoles, 11H-tetrazolo[4,5-b]pyridazino[4,5-b]indoles and 1,2,4-triazolo[3,4-f]-1,2,4-triazino[4,5-a]indoles
AU Monge Vega, A.; Aldana, I.; Rabbani, M. M.; Fernandez-Alvarez, E.
CS Fac. Farm., Univ. Navarra, Pamplona, Spain
SO Journal of Heterocyclic Chemistry (1980), 17(1), 77-80
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA English
OS CASREACT 93:71713
GI



I, X=CR1
II, X=N



III



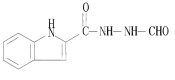
IV

AB The novel compds I (R = H, Me; R1 = H, Me, Ph) and (II (R = H or Me) were prepared from III, and IV (R = H, Me or Ph) were prepd. from 2-indolecarbohydrazide (V). I were obtained by acylation of III, followed by thermal cyclization and II by treating III with nitrous acid. The reactions of V with HCO2H or HC(OEt)3 gave 1,2-dihydro-1-oxo-1,2,4-triazino[4,5-a]indole. Treating this last compound with POCl3 or P2S5, followed by hydrazine, gave 1-hydrazino-1,2,4-triazino[4,5-a]indole. Acylation of this last compound followed of cyclization gave IV. All the compds. were characterized by elemental anal. and IR and 1H-NMR spectra.

IT 64932-49-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and intermol. cyclocondensation of)

RN 64932-49-6 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)



L14 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1978:105274 CAPLUS

DN 88:105274

OREF 88:16517a,16520a

TI as-Triazino[4,5-a]indoles. II. Study of as-triazinoindolones

AU Robba, M.; Maume, D.; Lancelot, J. C.

CS Lab. Pharm. Chim., UER Sci. Pharm., Caen, Fr.

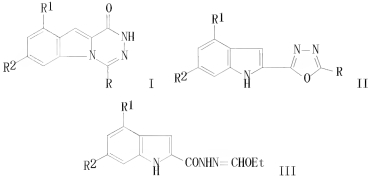
SO Journal of Heterocyclic Chemistry (1977), 14(8), 1365-8
CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

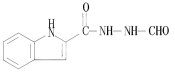
LA French

OS CASREACT 88:105274

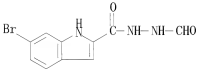
GI



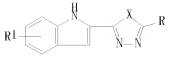
AB Triazinoindolones I (R = H, Me, CH2OMe, CH2OPr; R1 = H, Cl, Br; R2 = H, Br) were prepared by rearranging oxadiazolylindoles II with KOH or cyclizing III. 3,4-Dihydro-4-oxo-as-triazino[4,5-a]indole were similarly obtained by cyclizing 2-formylindole N-ethoxycarbonylhydrazone.
IT 64932-49-6 64932-53-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with orthoformate)
RN 64932-49-6 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)



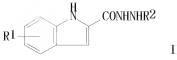
RN 64932-53-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-bromo-, 2-formylhydrazide (CA INDEX NAME)



L14 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1978:22764 CAPLUS
DN 88:22764
OREF 88:3653a,3656a
TI as-Triazino[4,5-a]indoles. I. Indole derivatives
AU Robba, M.; Maume, D.; Lancelot, J. C.
CS Lab. Pharm. Chim., UER Sci. Pharm., Caen, Fr.
SO Bulletin de la Societe Chimique de France (1977), (3-4, Pt. 2), 333-6
CODEN: BSCFAS; ISSN: 0037-8968
DT Journal
LA French
OS CASREACT 88:22764
GI



I



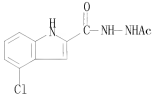
II

AB Oxadiazolylindoles I (X = O; R = H, Me, CH2Cl, CHCl2, CCl3, Ph, R1 = H; R = H, Me, R1 = 4-Cl; R = H, R1 = 4-Br, 6-Br) were obtained by acylating indoles II (R2 = H) and cyclizing resultant II (R2 = COR) with POCl3. I (R = H, Me, R1 = H, X = S) were similarly obtained with P2S5.

IT 64932-63-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)

RN 64932-63-4 CAPLUS

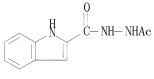
CN 1H-Indole-2-carboxylic acid, 4-chloro-, 2-acetylhydrazide (CA INDEX NAME)



IT 37574-75-7P 64932-49-6P 64932-51-0P
64932-52-1P 64932-53-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

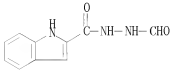
RN 37574-75-7 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)



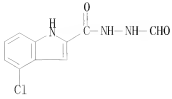
RN 64932-49-6 CAPLUS

CN 1H-Indole-2-carboxylic acid, 2-formylhydrazide (CA INDEX NAME)

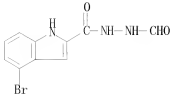


RN 64932-51-0 CAPLUS

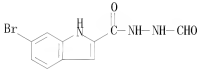
CN 1H-Indole-2-carboxylic acid, 4-chloro-, 2-formylhydrazide (CA INDEX NAME)



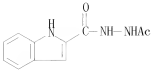
RN 64932-52-1 CAPLUS
CN 1H-Indole-2-carboxylic acid, 4-bromo-, 2-formylhydrazide (CA INDEX NAME)



RN 64932-53-2 CAPLUS
CN 1H-Indole-2-carboxylic acid, 6-bromo-, 2-formylhydrazide (CA INDEX NAME)



L14 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1972:539989 CAPLUS
DN 77:139989
OREF 77:23021a,23024a
TI Conditions of access to as-triazino(4,5-a)indole
AU Robba, M.; Maume, D.
CS Lab. Pharm. Chim., U.E.R. Sci. Pharm., Caen, Fr.
SO Tetrahedron Letters (1972), (23), 2333-5
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA French
GI For diagram(s), see printed CA Issue.
AB The as-triazinoindoles (I, R = H, Me) were prepared by base-catalyzed rearrangement of oxadiazolylindoles (II, R = H, Me, ClCH2, Cl2CH, Ph) which in turn were prepared by cyclizing in-dolylacylhydrazides R1CONHNHCOR (III, R1 = 2-indolyl; R = H, Me, ClCH2, Cl2CH, Ph). Thus, III (R1 = 2-indolyl, R = Me) was refluxed with POCl3 to give II (R = Me) which was refluxed in KOPr-PrOH to give I (R = Me). Treating III (R = OEt) with POCl3 gave the oxadiazolinone analog of II, whereas treating the former with KOPr-PrOH gave 2,3-dihydroas-triazino[4,5-a indole-1,4-dione.
IT 37574-75-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 37574-75-7 CAPLUS
CN 1H-Indole-2-carboxylic acid, 2-acetylhydrazide (CA INDEX NAME)

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                  D
L3              3 SEA SSS SAM L2
                  D SCAN
L4             42 SEA SSS FUL L2
                  D L1
                  D L2
                  D QUE L4 STAT
L5             28 SEA ABB=ON  PLU=ON  L4 AND ED<3/8/2004
                  D 1-28 IDE CAN

     FILE 'CAPLUS' ENTERED AT 15:01:51 ON 15 APR 2009
L6              9 SEA ABB=ON  PLU=ON  L4
                  D 1-9 BIB ABS HITSTR

     FILE 'REGISTRY' ENTERED AT 15:04:54 ON 15 APR 2009
L7                STRUCTURE UPLOADED
                  D
L8                STRUCTURE UPLOADED
                  D
L9              4 SEA SSS SAM L7 NOT L8
                  D QUE L9 STAT
                  D 1-4 IDE CAN

     FILE 'CAPLUS' ENTERED AT 15:06:06 ON 15 APR 2009
L10             8 SEA ABB=ON  PLU=ON  L9
                  D 1-8 BIB ABS HITSTR

     FILE 'REGISTRY' ENTERED AT 15:09:15 ON 15 APR 2009
L11               STRUCTURE UPLOADED
                  D
L12             1 SEA SSS SAM L11
L13            13 SEA SSS FUL L11
                  D QUE L13 STAT
                  D 1-13 IDE CAN

     FILE 'CAPLUS' ENTERED AT 15:11:20 ON 15 APR 2009
L14            13 SEA ABB=ON  PLU=ON  L13
                  D 1-13 BIB ABS HITSTR


     FILE HOME

     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.

     STRUCTURE FILE UPDATES:   14 APR 2009  HIGHEST RN 1134418-75-9
     DICTIONARY FILE UPDATES:  14 APR 2009  HIGHEST RN 1134418-75-9
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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

FILE CAPLUS

FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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